

Materials List for:

Acute Dissociation of Lamprey Reticulospinal Axons to Enable Recording from the Release Face Membrane of Individual Functional Presynaptic Terminals

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Materials

Name	Company	Catalog Number	Comments
0.2 µm Syringe filter	EMD Millipore	SLGV004SL	
22 x 60 mm Coverslips	Fisherbrand	12545J	
Advasep-7	Cydex Pharmaceuticals	ADV7	
Alexa Fluor 488 Phalloidin	Invitrogen/Life Technologies	A12379	
Alexa-633 conjugated goat anti-rabbit secondary antibody	Invitrogen/Life Technologies	A21070	
Antifreeze	Prestone		
Boric acid	Sigma-Aldrich	B7660	
Bovine serum albumin	Sigma-Aldrich	A7906	
Bright field light source	Dolan-Jenner	Fiberlite 180	
Calcium chloride	Sigma Aldrich	C4901	
Collagenase Type IA from <i>Cloristridium Histolyticum</i>	Sigma-Aldrich	C9891	
Cover slip	Fisher-Scientific	12-545-J	
Dextrose	Sigma-Aldrich	D9559	
Digital CCD Camera	Hamamatsu	C8484-03G01	
Dissection fine forceps	Fine Science Tools	91150-20	
Dissection forceps	Fine Science Tools	11251-20	
Dissection microscope	Leica Biosystems	Leica MZ 12	
Dissection scissors	Fine Science Tools	15025-10	
Dissection scissors fine	Fine Science Tools	91500-09	
Dissection scissors ultra fine	Fine Science Tools	15000-08	
FM 1-43	Invitrogen/Life Technologies	T3163	
Glycine	Sigma-Aldrich	G7126	
HEPES	Sigma-Aldrich	H7523	
High vacuum grease	Dow-Corning		
Hydrochloric acid	Fisherbrand	SA-56-500	
Immersion oil	Fisher-Scientific	M2000	
Industrial grade nitrogen gas tank	Praxair	UN1066	
Insect pins	Fine Science Tools	26002-10	
Liquid suture glue	Braun Veterinary Cair Division	8V0305	The suture glue we used in our experiments was provided to us by another lab. It is no longer manufactured. We have sourced

			a Histoacryl Suture Glue for future use from Aesculap (Ts1050071FP)
Magnesium chloride	Sigma-Aldrich	M2670	
Methanol	Sigma-Aldrich	154903	
Non-fat dry milk	Cell Signaling Technology	9999S	
P-87 Micropipette puller	Sutter Instruments		
Paraformaldehyde	Sigma-Aldrich	P6148	
Perfusion pump	Cole-Palmer	Masterflex C/L	
Petri dish 100 x 15 mm	Fisher-Scientific	875712	
Petri dish 35 x 10 mm	Fisher-scientific	875712	
Poly-D-lysine hydrobromide	Sigma-Aldrich	P1024	MW> 300,000
Potassium chloride	Sigma-Aldrich	P9333	
Potassium phosphate monobasic	Sigma-Aldrich	P5379	
Primary antibodies R-type calcium channel	Alomone Labs	ACC-006	
Protease Type XIV from Streptomyces Griseus	Sigma-Aldrich	P5147	
Scapel blades	World Precision Instruments	500240	
Schot Duran Pressure Bottle	Fisher-Scientific	09-841-006	
Silicone tubing for glue application	Cole-Palmer	07625-26	
Slicing base plate	Leica Biosystems	14046327404	
Slicing chamber	Leica Biosystems	14046230132	
Sodium chloride	Sigma-Aldrich	S7653	
Sodium hydroxide		S8045	
Sodium phosphate dibasic	Sigma-Aldrich	S9763	
Sodium tetraborate	Sigma-Aldrich	B3545	
Sylgard 160 Silicone Elastomer Kit	Dow Corning	SYLGARD® 160	To prepare, mix elastomer A and elastomer B 10:1 by weight
Sylgard 184 Silicone Elastomer Kit	Dow Corning	SYLGARD® 184	To prepare, mix elastomer and curing agent 10:1 by weight
Teflon coated forceps	Fine Science Tools	11626-11	
Tricaine methanesulphonate	Sigma-Aldrich	A5040	
Vibratome blades	World Precision Instruments	BLADES	
Xenon lamp	Nikon		